

SEQUENCE LISTING

<110> SmithKline Beecham Biologicals

<120> Novel compounds

<130> BM45311

<160> 14

<170> FastSEQ for Windows Version 3.0

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<212> DNA

<213> Bacteria

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<213> Bacteria

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 35 40 45
 Val Ala Pro Leu Val Asp Asn Asp Glu Thr Val Lys Ala Leu Ala Ser
 50 55 60
 Lys Leu Pro Ser Leu Val Tyr Phe Asp Phe Asp Ser Asp Glu Ile Lys
 65 70 75 80
 Pro Gln Ala Ala Ala Ile Leu Asp Glu Gln Ala Gln Phe Leu Thr Thr
 85 90 95
 Asn Gln Thr Ala Arg Val Leu Val Ala Gly His Thr Asp Glu Arg Gly
 100 105 110
 Ser Arg Glu Tyr Asn Met Ser Leu Gly Glu Arg Arg Ala Val Ala Val
 115 120 125
 Arg Asn Tyr Leu Leu Gly Lys Gly Ile Asn Gln Ala Ser Val Glu Ile
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Val	Ala	Pro	Asn	Ala	Pro	Thr	Gly	Tyr	Thr	Gly	Val	Ile	Tyr	Thr	Gly
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Val	Ala	Pro	Leu	Val	Asp	Asn	Asp	Glu	Thr	Val	Lys	Ala	Leu	Ala	Ser
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Thr	Leu	Pro	Ser	Leu	Val	Tyr	Phe	Asp	Phe	Asp	Ser	Asp	Glu	Ile	Lys
65				70						75				80	
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      35              40              45
Val Ala Pro Leu Val Asp Asn Asp Glu Thr Ile Lys Thr Leu Ala Ser
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Thr Leu Pro Ser Leu Val Tyr Phe Asp Phe Asp Ser Asp Glu Ile Lys
      65              70              75              80
Pro Gln Ala Ala Ala Ile Leu Asp Glu Gln Ala Gln Phe Leu Thr Thr
      85              90              95
Asn Gln Thr Ala Arg Val Leu Val Ala Gly His Thr Asp Glu Arg Gly
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Ser Arg Glu Tyr Asn Met Ser Leu Gly Glu Arg Arg Ala Val Ala Val
      115             120             125
Arg Asn Tyr Leu Leu Gly Lys Gly Ile Asn Gln Ala Ser Val Glu Ile
      130             135             140
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<210> 8

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Val Ala Pro Asn Ala Pro Thr Gly Tyr Ala Gly Val Ile Tyr Thr Gly
      35             40             45
Val Ala Pro Leu Val Asp Asn Asp Glu Thr Val Lys Ala Leu Ala Ser
      50             55             60
Thr Leu Pro Ser Leu Val Tyr Phe Asp Phe Asp Ser Asp Glu Ile Lys
      65             70             75             80
Pro Gln Ala Ala Ala Ile Leu Asp Glu Gln Ala Gln Phe Leu Thr Thr
      85             90             95
Asn Gln Thr Ala Arg Val Leu Val Ala Gly His Thr Asp Glu Arg Gly
      100            105            110
Ser Arg Glu Tyr Asn Met Ser Leu Gly Glu Arg Arg Ala Val Ala Val
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Arg Asn Tyr Leu Leu Ser Lys Gly Ile Asn Gln Ala Ser Val Glu Ile
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<210> 14

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 14

Tyr Thr Gly Val Ala Pro Leu Val Asp Asn Asp Glu Thr Val

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5

10

SEQUENCE INFORMATION

BASB019 Polynucleotide and Polypeptide Sequences

SEQ ID NO:1

Moraxella catarrhalis BASB019 polynucleotide sequence from strain MC2931

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TAAACCGCAAGCTGCTGCCATCTTAGACGAACAAGCACAATTTTAAACCACCAATCAAA
CAGCTCGTGTGTTTGGTTGCAGGTCATACCGATGAGCGTGGTAGTCGTGAGTATAATATG
TCACTGGGGGAACGCCGTGCGGTGGCGGTACGCAACTATTTGCTTGGTAAAGGCATTAA
TCAAGCCAGCGTTGAGATTATCAGTTTGGTGAAGAACGCCCTATCGCATTTGGCACAA
ATGAAGAAGCATGGTCACAAAATCGTCGTGCTGAACTGTCTTATTAA

SEQ ID NO:2

Moraxella catarrhalis BASB019 polypeptide sequence from strain MC2931

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SEQ ID NO:3

Moraxella catarrhalis BASB019 polynucleotide sequence from strain Mcat 2911

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GTTACACTGGGGTTATCTATACTGGTGTGTCACCTTTGGTAGATAATGATGAGACCGTT
AAGGCTCTAGCAAGCACGCTACCCAGTTTGGTTTATTTTGACTTTGATTCTGATGAGAT
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CAGCTCGTGTGTTTGGTTGCAGGTCATACCGATGAGCGTGGTAGTCGTGAGTATAATATG
TCACTGGGGGAACGTCGTGCGGTGGCGGTACGCAACTATTTGCTTGGTAAAGGCATTAA
TCAAGCCAGCGTTGAGATTATCAGTTTGGTGAAGAACGCCCTATCGCATTTGGCACAA
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SEQ ID NO:4

Moraxella catarrhalis BASB019 polypeptide sequence from strain Mcat 2911

MMLHIQIAAAAAALSVLTFMTGCANKSTSQVMVAPNAPTGYTGVIYTGVAPLVDNDET
V KALASTLPSLVYFDSDSEIKPQAAAILDEQAQFLTTNQTARVLVAGHTDERGSREYNM
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SEQ ID NO:5

Moraxella catarrhalis BASB019 polynucleotide sequence from strain Mcat 2960

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AAGACTTTGGCAAGCACGCTACCCAGTTTGGTTTATTTTGACTTTGATTCTGATGAGAT
TAAACCGCAAGCTGCTGCCATCTTAGACGAACAAGCACAAATTTTAACCACCAATCAAA
CAGCTCGTGTTTTGGTTGCAGGTCATACCGATGAGCGTGGTAGTCGTGAGTATAATATG
TCACTGGGGGAACGCCGTGCGGTGGCGGTACGCAACTATTTGCTTGGTAAAGGCATTAA
TCAAGCCAGCGTTGAGATTATCAGTTTTGGTGAAGAACGCCCTATCGCATTTGGCACAA
ATGAAGAAGCATGGTCACAAAATCGTCGTGCTGAACTGTCTTATTAA

SEQ ID NO:6

Moraxella catarrhalis BASB019 polypeptide sequence from strain Mcat 2960

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KTLASTLPSLVYFDSDSEIKPQAAAILDEQAQFLTTNQTARVLVAGHTDERGSREYNM
SLGERRAVAVRNYLLGKGINQASVEIISFGEERPIAFGTNEEAWSQNRRAELSY

SEQ ID NO:7

Moraxella catarrhalis BASB019 polynucleotide sequence from strain Mcat 2969

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GTTACGCTGGCGTTATCTACACTGGTGTTCACCTTTGGTAGATAATGATGAGACCGTC
AAGGCTTTGGCAAGCACGCTACCCAGTTTGGTTTATTTTGACTTTGATTCTGATGAGAT
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CAGCTCGTGTTTTGGTTGCAGGTCATACCGATGAGCGTGGTAGTCGTGAGTATAATATG
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TCAAGCCAGCGTTGAGATTATCAGTTTTGGTGAAGAACGCCCTATCGCATTTGGCACAA
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SEQ ID NO:8

Moraxella catarrhalis BASB019 polypeptide sequence from strain Mcat 2969

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SEQ ID NO:9

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SEQ ID NO:10

GGC AGA GTG AAT CTT AAG C

SEQ ID NO:11

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GTT ATG GTT GCT CC

SEQ ID NO:12

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SEQ ID NO:13

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SEQ ID NO:14

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